

22. (Previously Amended) The method of claim 1 wherein an immunoglobulin gene is co-introduced into said cell, whereby said cell produces said antibodies.
23. (Currently Amended) A homogeneous culture of isolated, hypermutable, mammalian cells wherein said cells ~~[[produces]]~~ produce antibodies and comprise a dominant negative allele of a ~~[[PMS2]]~~ mismatch repair gene, wherein said dominant negative allele encodes a truncation mutant of a PMS2 protein.
24. (Canceled)
25. (Currently Amended) The culture of isolated, hypermutable, mammalian cells of claim 23 wherein the mismatch repair gene is human *PMS2*.
- 26-28. (Canceled)
29. (Currently Amended) The culture of isolated, hypermutable, mammalian cells of claim 23 wherein the cells express a protein consisting of the first 133 amino acids of hPMS2.
- 30-72. (Canceled)
73. (Previously added) A cell produced by the method of claim 1.
74. (Previously added) A cell produced by the method of claim 4.

- 75. (Previously added) The method of claim 1 further comprising the step restoring genetic stability of said hypermutable cell.
- 76. (Previously added) A cell produced by the method of claim 75.
- 77. (Previously added) A homogeneous culture of the cells of claim 76.
- 78. (Previously added) The method of claim 22 further comprising the step restoring genetic stability of said hypermutable cell.
- 79. (Previously added) A cell produced by the method of claim 78.
- 80. (Previously added) A homogeneous culture of the cells of claim 79.



A DOCPHOENIX

## APPL PARTS

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IMIS \_\_\_\_\_  
Internal Misc. Paper

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LET. \_\_\_\_\_  
Misc. Incoming Letter

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371P \_\_\_\_\_  
PCT Papers in a 371Application

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A... \_\_\_\_\_  
Amendment Including Elections

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ABST \_\_\_\_\_  
Abstract

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ADS \_\_\_\_\_  
Application Data Sheet

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AF/D \_\_\_\_\_  
Affidavit or Exhibit Received

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APPENDIX \_\_\_\_\_  
Appendix

\_\_\_\_\_  
ARTIFACT \_\_\_\_\_  
Artifact

\_\_\_\_\_  
BIB \_\_\_\_\_  
Bib Data Sheet

\_\_\_\_\_  
CLM \_\_\_\_\_  
Claim

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COMPUTER \_\_\_\_\_  
Computer Program Listing

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CRFL \_\_\_\_\_  
All CRF Papers for Backfile

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DIST \_\_\_\_\_  
Terminal Disclaimer Filed

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DRW \_\_\_\_\_  
Drawings

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FOR \_\_\_\_\_  
Foreign Reference

\_\_\_\_\_  
FRPR \_\_\_\_\_  
Foreign Priority Papers

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IDS \_\_\_\_\_  
IDS Including 1449

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NPL \_\_\_\_\_  
Non-Patent Literature

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OATH \_\_\_\_\_  
Oath or Declaration

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PET. \_\_\_\_\_  
Petition

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RETMAIL \_\_\_\_\_  
Mail Returned by USPS

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SEQLIST \_\_\_\_\_  
Sequence Listing

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SPEC \_\_\_\_\_  
Specification

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SPEC NO \_\_\_\_\_  
Specification Not in English

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TRNA \_\_\_\_\_  
Transmittal New Application

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CTNF \_\_\_\_\_  
Count Non-Final

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CTRS \_\_\_\_\_  
Count Restriction

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EXIN \_\_\_\_\_  
Examiner Interview

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M903 \_\_\_\_\_  
DO/EO Acceptance

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M905 \_\_\_\_\_  
DO/EO Missing Requirement

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NFDR \_\_\_\_\_  
Formal Drawing Required

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NOA \_\_\_\_\_  
Notice of Allowance

\_\_\_\_\_  
PETDEC \_\_\_\_\_  
Petition Decision

## OUTGOING

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CTMS \_\_\_\_\_  
Misc. Office Action

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1449 \_\_\_\_\_  
Signed 1449

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892 \_\_\_\_\_  
892

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ABN \_\_\_\_\_  
Abandonment

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APDEC \_\_\_\_\_  
Board of Appeals Decision

\_\_\_\_\_  
APEA \_\_\_\_\_  
Examiner Answer

\_\_\_\_\_  
CTAV \_\_\_\_\_  
Count Advisory Action

\_\_\_\_\_  
CTEQ \_\_\_\_\_  
Count Ex parte Quayle

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CTFR \_\_\_\_\_  
Count Final Rejection

## INCOMING

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AP.B \_\_\_\_\_  
Appeal Brief

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C.AD \_\_\_\_\_  
Change of Address

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N/AP \_\_\_\_\_  
Notice of Appeal

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PA.. \_\_\_\_\_  
Change in Power of Attorney

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REM 9 \_\_\_\_\_  
Applicant Remarks in Amendment

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XT/ \_\_\_\_\_  
Extension of Time filed separate

BACKFILE DOCUMENT INDEX SHEET

### Internal

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SRNT \_\_\_\_\_  
Examiner Search Notes

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CLMPTO \_\_\_\_\_  
PTO Prepared Complete Claim Set

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ECBOX \_\_\_\_\_  
Evidence Copy Box Identification

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WCLM \_\_\_\_\_  
Claim Worksheet

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WFEE \_\_\_\_\_  
Fee Worksheet

### File Wrapper

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FWCLM \_\_\_\_\_  
File Wrapper Claim

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IIFW \_\_\_\_\_  
File Wrapper Issue Information

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SRFW \_\_\_\_\_  
File Wrapper Search Info